

Claims

1. A pressure-sensitive adhesive comprising a first layer and a second layer,

the first layer being a heat-activatable pressure-sensitive adhesive which has a static glass transition temperature $T_{g,a}$ or a melting point $T_{m,a}$ of at least +30°C; and

the second layer being a polyacrylate pressure-sensitive adhesive which has a static glass transition temperature of not more than +15°C.
2. The pressure-sensitive adhesive of claim 1, characterized in that the heat-activatable pressure-sensitive adhesive of the first layer is a thermoplastic polymer.
3. The pressure-sensitive adhesive of claim 1 or claim 2, characterized in that the heat-activatable pressure-sensitive adhesive of the first layer is selected from a group which encompasses polyesters, copolyesters, polyamides, copolyamides, polyolefins, polyurethanes or polymethacrylates.
4. The pressure-sensitive adhesive of claim 1, characterized in that the heat-activatable pressure-sensitive adhesive of the first layer comprises an elastomer and at least one reactive resin.
5. The pressure-sensitive adhesive of claim 1, characterized in that the heat-activatable pressure-sensitive adhesive of the first layer comprises a polymer which in relation to the polymer comprises

(a1) 70% to 100% by weight of acrylic esters and/or methacrylic esters and/or the free acids thereof with the formula $\text{CH}_2=\text{CH}(\text{R}_1)(\text{COOR}_2)$, R_1 being H and/or CH_3 and R_2 being H and/or alkyl chains having 1 to 30 carbon atoms; and

(a2) 0 to 30% by weight of olefinically unsaturated monomers containing functional groups.

6. The pressure-sensitive adhesive of any one of the preceding claims, characterized in that the polyacrylate pressure-sensitive adhesive of the second layer comprises a polymer which in relation to the polymer comprises
 - (b1) 79% to 100% by weight of acrylic esters and/or methacrylic esters and/or the free acids thereof with the formula $\text{CH}_2=\text{CH}(\text{R}_3)(\text{COOR}_4)$, R_3 being H and/or CH_3 and R_4 being H and/or alkyl chains having 1 to 30 carbon atoms; and
 - (b2) 0 to 30% by weight of olefinically unsaturated monomers containing functional groups.
7. A process for preparing a pressure-sensitive adhesive of any one of claims 1 to 6, the heat-activatable pressure-sensitive adhesive of the first layer being applied from solution to the polyacrylate pressure-sensitive adhesive of the second layer.
8. A process for preparing a pressure-sensitive adhesive of any one of claims 1 to 6, the heat-activatable pressure-sensitive adhesive of the first layer being applied from the melt to the polyacrylate pressure-sensitive adhesive of the second layer.
9. A process for preparing a pressure-sensitive adhesive of any one of claims 1 to 6, the heat-activatable pressure-sensitive adhesive of the first layer and the polyacrylate pressure-sensitive adhesive of the second layer being brought together during a coextrusion process.
10. The process of any one of claims 7 to 9, characterized in that it further comprises the crosslinking of the polyacrylate pressure-sensitive adhesive of the second layer or of the polyacrylate pressure-sensitive adhesives of the first and second layers.
11. The use of a pressure-sensitive adhesive of any one of claims 1 to 6 for a pressure-sensitive adhesive tape.